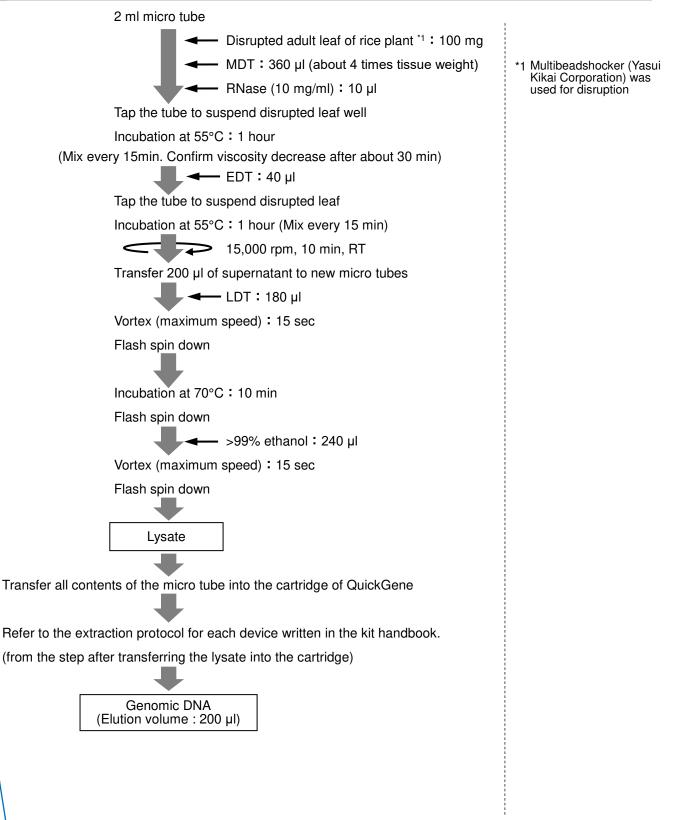
4. Genomic DNA Extraction from Tissue of Plant



KURABO

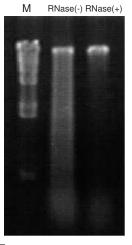
# Genomic DNA Extraction from Adult Leaf of Rice Plant

Protocol





#### Electropherogram



#### The yield of genomic DNA

Sample	RNase (+)	RNase (-)		
Yield (µg)	10	36		

 $M: \lambda$ -*Hin* d III

#### Other

Restriction Enzyme Digestion



 $M : \lambda$ -*Hin* d III



(Contributed by Professor Yukimoto Iwasaki and Yukiko Fujisawa, Faculty of Biotechnology, Fuyuki Prefectural University)

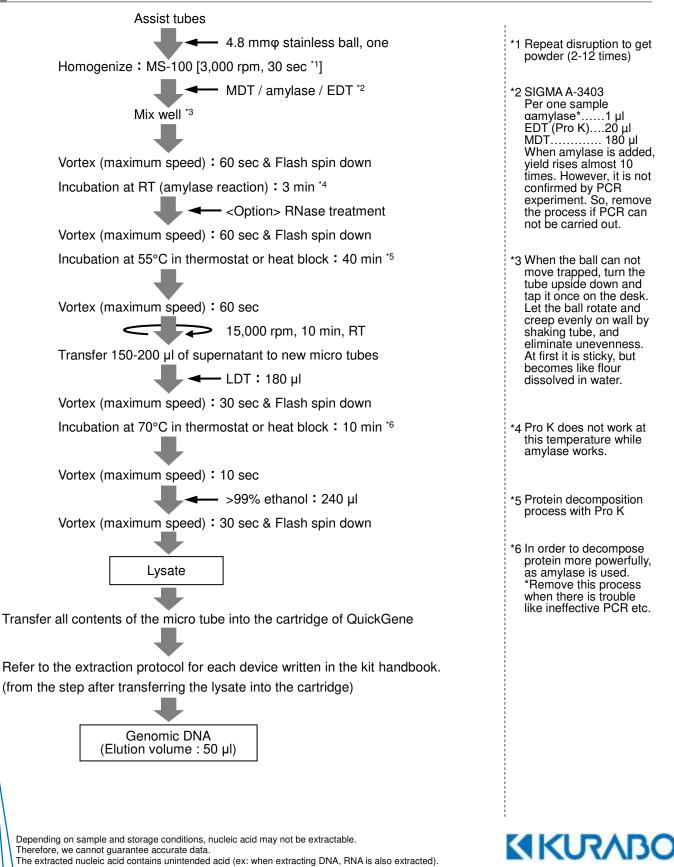
# Common protocol is usable for the following

#### No Data





# **Genomic DNA Extraction from Amaranth Seed**





No Data

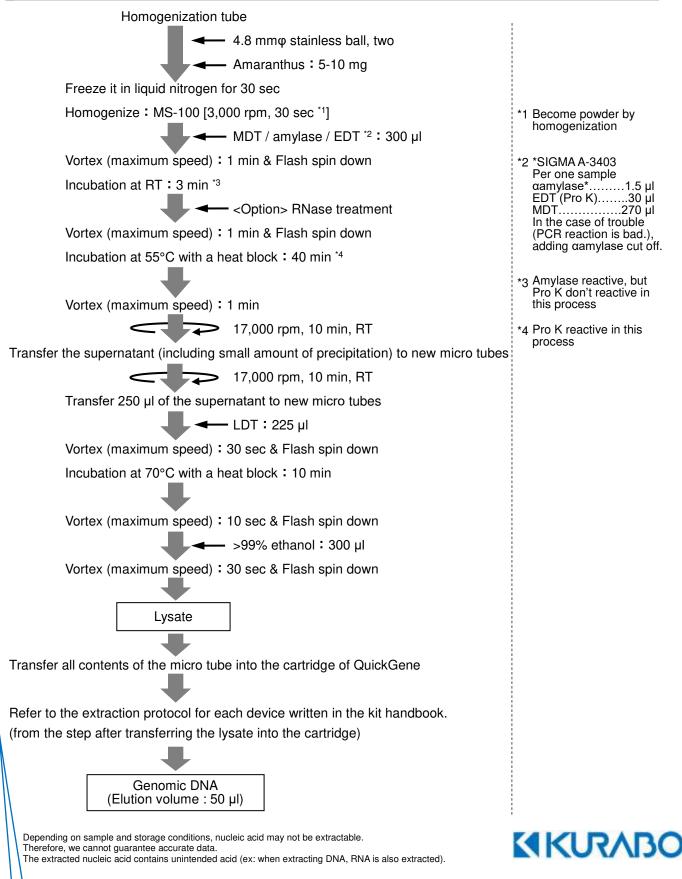
# Common protocol is usable for the following

No Data



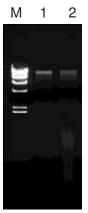


**Genomic DNA Extraction from Amaranthus** 





#### Electropherogram



 $\begin{array}{l} 1 \ : \ 5 \ mg \ amaranthus \\ 2 \ : \ 10 \ mg \ amaranthus \\ M \ : \ \lambda \ {\it Hin} \ d \ III \ Marker \end{array}$ 

1% Agarose EtBr 100V 30 min RNase treatment

### The yield of genomic DNA

Samples are below detection limit

# Common protocol is usable for the following

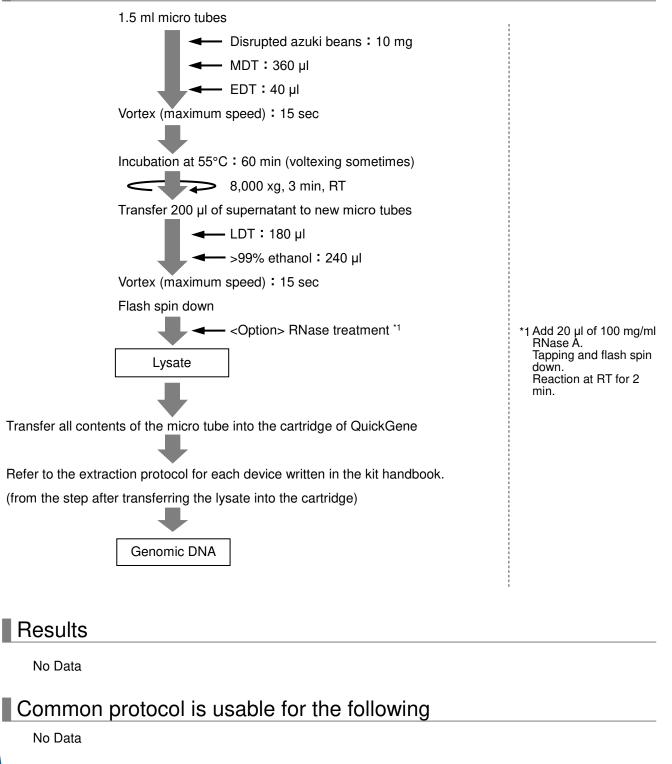
Lettuce





# **Genomic DNA Extraction from Azuki Beans**

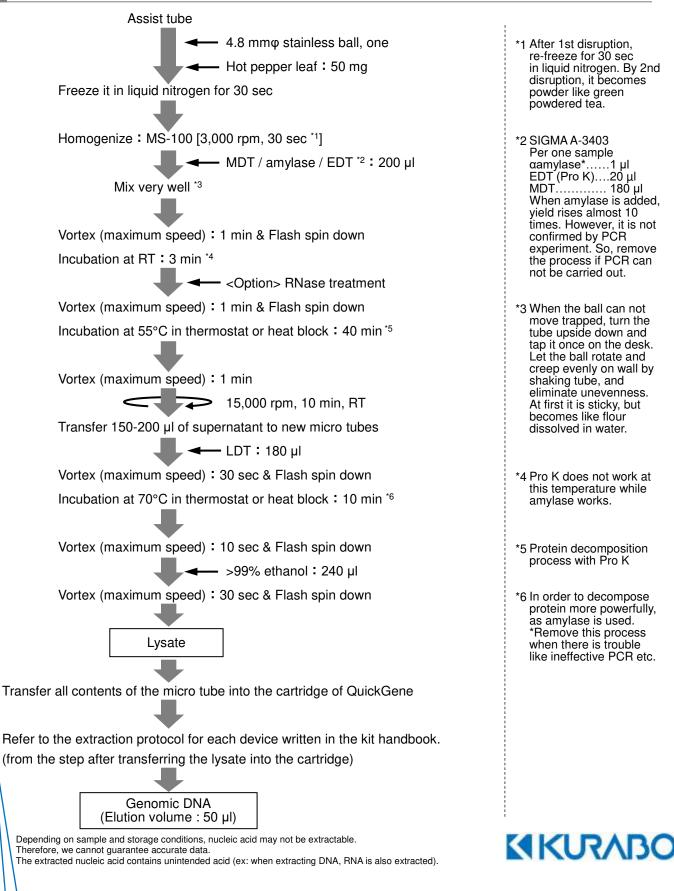
### Protocol







# **Genomic DNA Extraction from Hot Pepper Leaf**





No Data

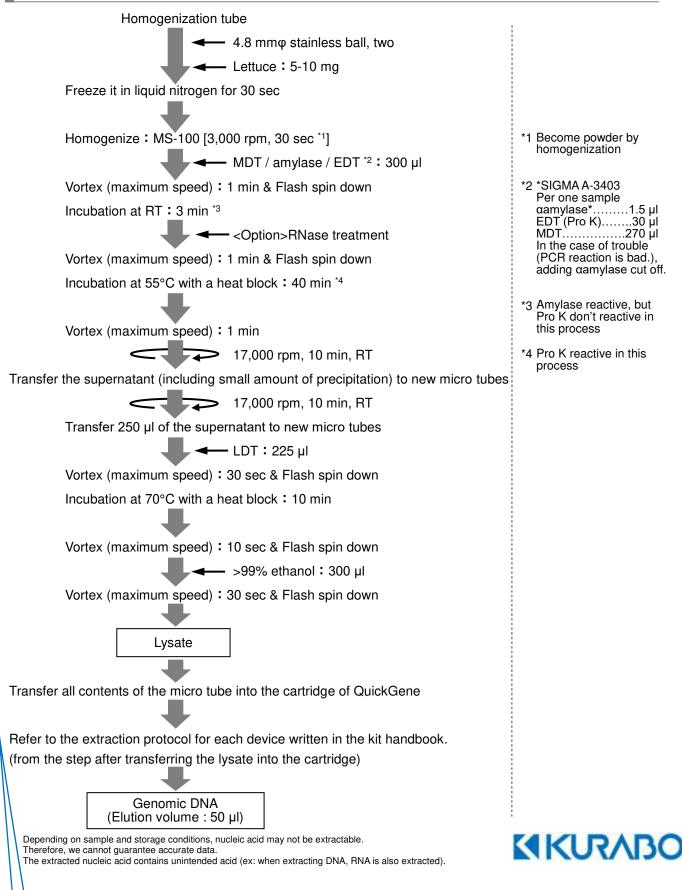
# Common protocol is usable for the following

Lettuce





# **Genomic DNA Extraction from Lettuce**





#### Electropherogram



1 : 5 mg lettuce 2 : 10 mg lettuce M :  $\lambda$ -*Hin* d III Marker

1% Agarose EtBr 100V 30 min RNase treatment

#### The yield of genomic DNA

Sample	10 mg lettuce				
Yield (µg)	1.2				

# Common protocol is usable for the following

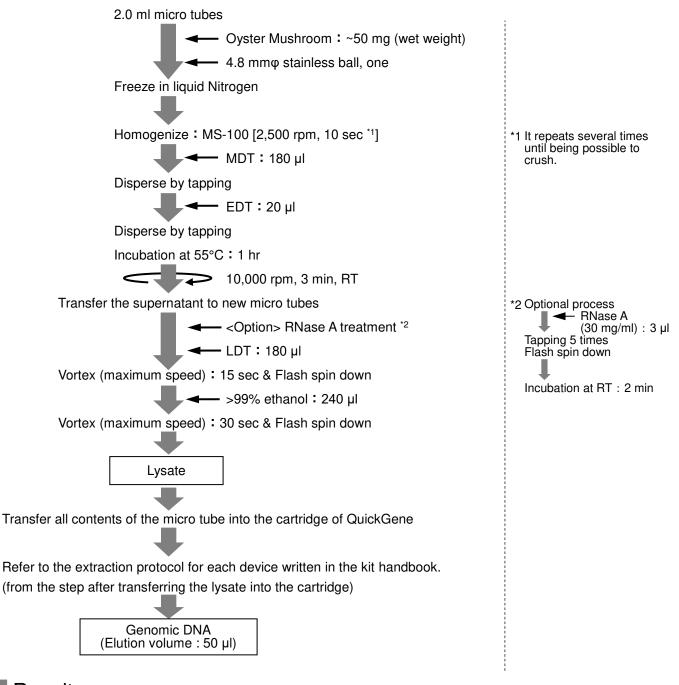
Amaranthus





# **Genomic DNA Extraction from Oyster Mushroom**

### Protocol



#### Results

No Data

# Common protocol is usable for the following

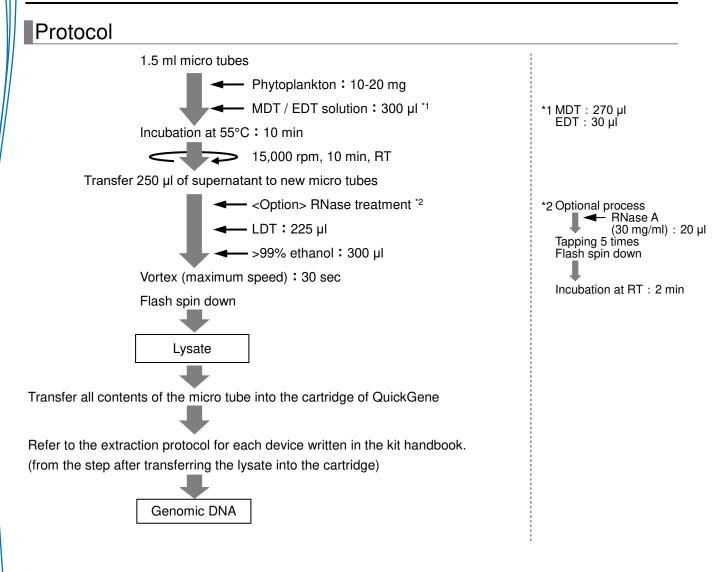
#### No Data

Depending on sample and storage conditions, nucleic acid may not be extractable. Therefore, we cannot guarantee accurate data. The extracted nucleic acid contains unintended acid (ex: when extracting DNA, RNA is also extracted).

# KURABO



# **Genomic DNA Extraction from Phytoplankton**



### Results

No Data

# Common protocol is usable for the following

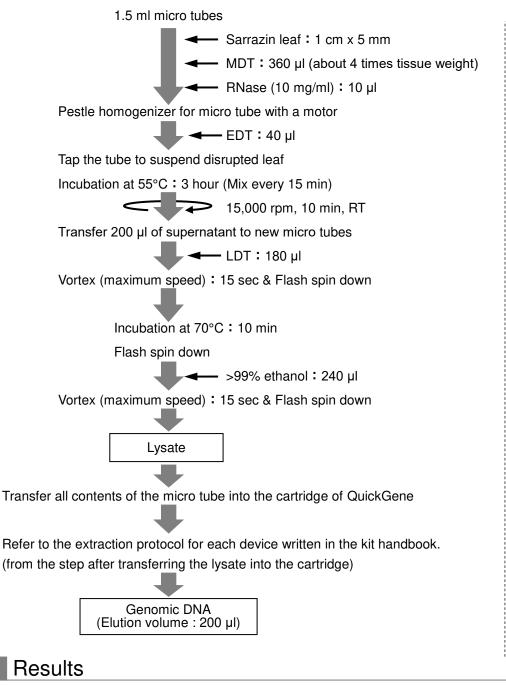
#### No Data





# Genomic DNA Extraction from Sarrazin leaf





No Data

# Common protocol is usable for the following

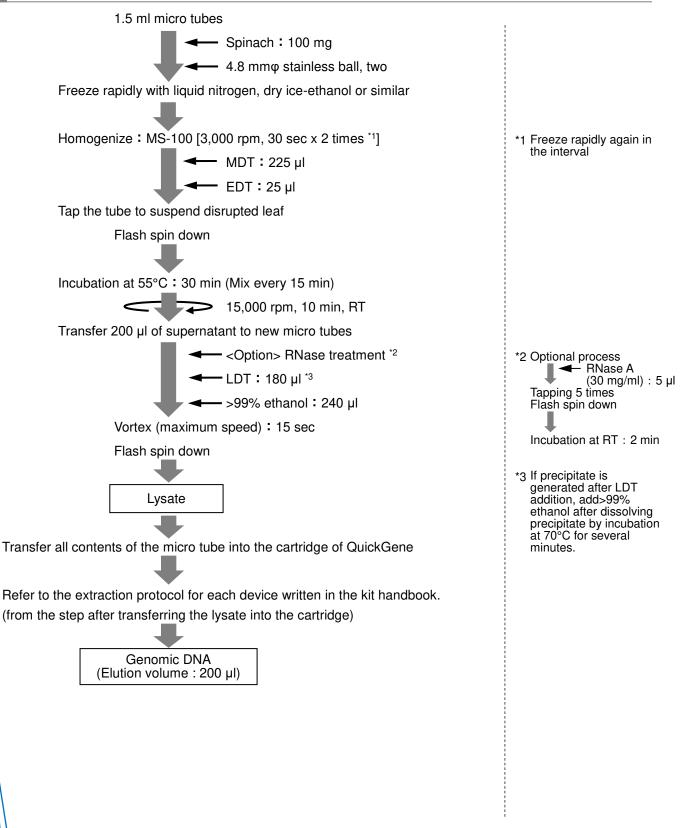
#### No Data





**Genomic DNA Extraction from Spinach Leaf** 

# Protocol







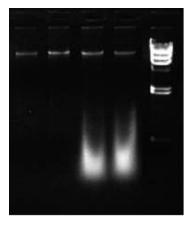
#### QuickGene DNA tissue kit S (DT-S) QuickGene SP kit DNA tissue (SP-DT)

#### Results

#### Electropherogram

Μ

RNase(+) RNase(-)



Electrophoresis condition : 1% agarose / 1 x TAE M :  $\lambda$  - Hind III

#### The yield of genomic DNA

RNase		4	F		-			
Sample	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8
Yield (µg)	3.6	4.0	2.8	6.9	39.6	14.8	44.8	54.0

N=4

#### Protein contamination : A260/280

RNase		+	F		-			
Sample	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8
A260/A280	1.94	1.87	1.80	1.97	2.22	2.16	2.24	2.24

N=4

#### Chaotropic salt contamination : A260/230

RNase		4	F		-			
Sample	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8
A260/A230	1.76	1.89	1.77	2.04	2.24	1.99	2.26	2.29

N=2

#### Common protocol is usable for the following

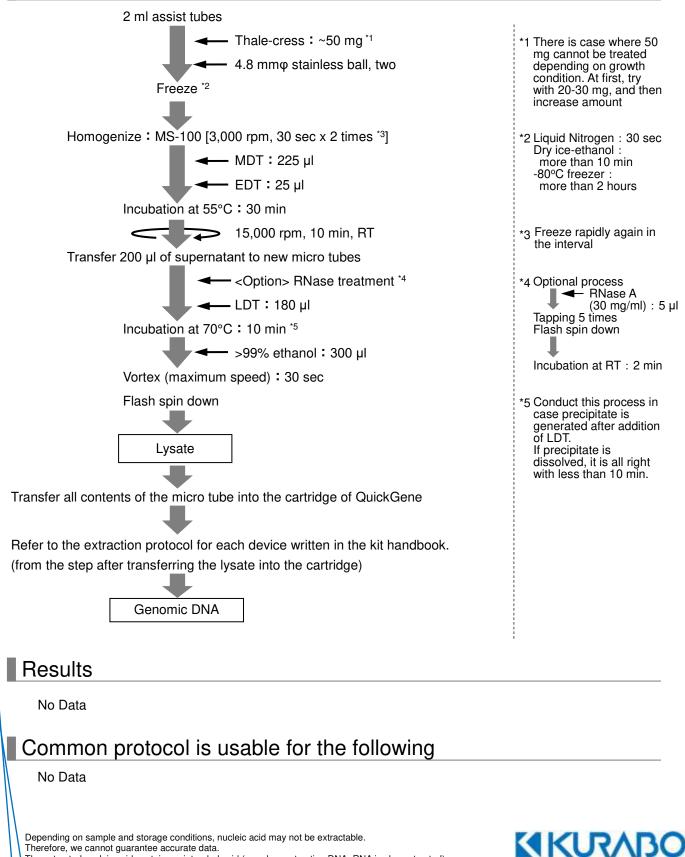
No Data





# **Genomic DNA Extraction from Thale-cress**



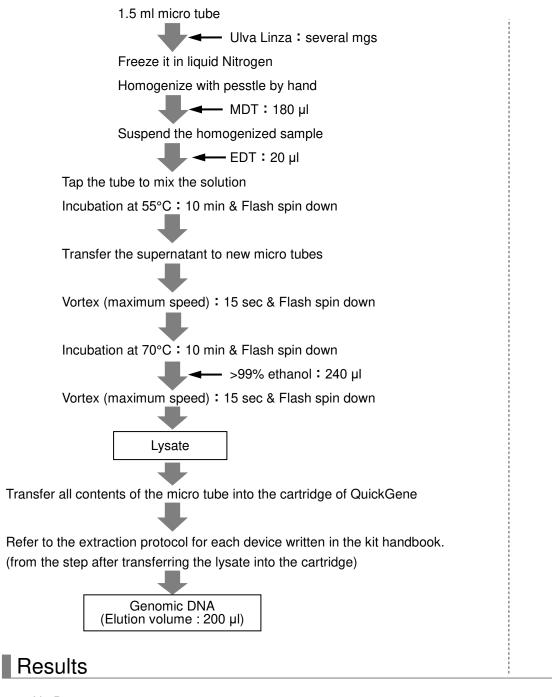


The extracted nucleic acid contains unintended acid (ex: when extracting DNA, RNA is also extracted).



# Genomic DNA Extraction from Ulva Linza





No Data

# Common protocol is usable for the following

#### No Data



